

JUN 06 2003

Sheet 1 of 5

Form PTO-1449

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
2879-USSERIAL NO.  
09/835,147

## INFORMATION DISCLOSURE CITATION

APPLICANT

Charles Maliszewski et al.

FILING DATE

April 13, 2001

GROUP

1644

(Use several sheets if necessary)

## U.S. PATENT DOCUMENTS

EXAMINER	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
P.H.	5,073,627	12/17/91	Curtis et al.			
	5,378,601	1/3/95	Gepner-Puszkun			
	5,506,126	4/9/96	Seed et al.			
	5,798,241	8/25/98	Beaudoin et al			
	6,287,837	9/11/01	Beaudoin et al.			

RECEIVED

JUN 08 2003

TECH CENTER 1600/2900

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
P.H.	WO 96/32471	10/17/96	PCT			
	WO 96/30532	10/3/96	PCT			
	WO 00/23094	4/27/00	PCT			
	WO 01/11949	2/22/01	PCT			
	EP 0 416 673 A1	3/13/91	EP			

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

P.H.	Chadwick, B. P. and Frischauf, A., "The CD39-like gene family: identification of three new human members (CD39L2, CD39L3, and CD39L4), their murine homologues, and a member of the gene family from drosophila melanogaster," <i>Genomics, U.S Academic Press, San Diego Vol. 50(3): 357-367, 1998.</i>
	Choudhri, T. et al., "Reduced microvascular thrombosis and improved outcome in acute murine stroke by inhibiting GP IIb /IIIa receptor-mediated platelet aggregation," <i>J. Clin. Invest. 102(7): 1301-1310, 1998.</i>
	Colman, R. et al., "Inhibition of collagen-induced platelet activation by 5'-p-fluorosulfonylbenzoyl adenosine: evidence for an adenosine diphosphate requirement and synergistic influence of prostaglandin endoperoxides," <i>Blood 68(2): 565-570, 1986.</i>
	Connolly, E. et al., "Cerebral protection in homozygous null ICAM-1 mice after middle cerebral artery occlusion," <i>J. Clin Invest 97(1): 209-216, 1996.</i>

EXAMINER

DATE CONSIDERED

3/14/05

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Form PTO-1449

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

2879-US

SERIAL NO.

09/835,147

JUN 06 2003

## INFORMATION DISCLOSURE CITATION

APPLICANT

Charles Maliszewski et al.

FILING DATE

April 13, 2001

GROUP

1644

(Use several sheets if necessary)

## U.S. PATENT DOCUMENTS

EXAMINER	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

RECEIVED

JUN 09 2003

TECH CENTER 1800/2200

## FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Pmk	Connolly, E. et al., "Procedural and strain-related variables significantly affect outcome in a murine model of focal cerebral ischemia," <i>Neurosurgery</i> 38(3): 523-532, 1996.
	Cullen, B., "Expression of a cloned human interleukin -2 cDNA is enhanced by the substitution of a heterologous mRNA leader region," <i>DNA</i> 7(9): 645-650, 1988.
	Gayle, R., et al., "Inhibition of platelet function by recombinant soluble ecto-ADPase/CD39," <i>J. Clin. Invest.</i> 101(9): 1851-1859, 1998.
	Handa, M. and Guidotti, G., "Purification and cloning of a soluble ATP-diphosphohydrolase (Apyrase) from potato tubers ( <i>Solanum tuberosum</i> )," <i>Biochem. Biophys. Res. Comm.</i> 218: 916-923, 1996.
↓	Kaczmarek, E. et al., "Identification and characterization of CD39/vascular ATP diphosphohydrolase," <i>J. Biol. Chem.</i> 271(51): 33116-33122, 1996.

EXAMINER

DATE CONSIDERED

3/14/05

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



JUN 06 2003

Sheet 3 of 5

Form PTO-1449

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

2879-US

SERIAL NO.

09/835,147

## INFORMATION DISCLOSURE CITATION

APPLICANT

Charles Maliszewski et al.

FILING DATE

April 13, 2001

GROUP

1644

(Use several sheets if necessary)

## U.S. PATENT DOCUMENTS

EXAMINER	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

RECEIVED

JUN 09 2003

TECH CENTER 1800/2000

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Pkt		Kansas, G. and Tedder, T., "Transmembrane signals generated through MHC class II, CD19, CD20, CD39, and CD40 antigens induce LFA-I-dependent and independent adhesion in human B cells through a tyrosine kinase-dependent pathway," <i>J. Immunol.</i> 147 (12): 4094-4102, 1991.
↓		Maliszewski, C. et al., "The CD39 lymphoid cell activation antigen," <i>J. Immunol.</i> 153: 3574-3583, 1994.
		Marcus, A. and Safier, L., "Thromboregulation: multicellular modulation of platelet reactivity in hemostasis and thrombosis," <i>FASEB J.</i> 7: 516-522, 1993.
		Marcus, A. et al., "The endothelial cell ecto-ADPase responsible for inhibition of platelet function is CD39," <i>J. Clin. Invest.</i> 99(6): 1351-1360, 1997.
↓		Marcus, A. et al., "Thromboregulatory activity of cultured human endothelial cells: subcellular localization and solubilization of a membrane ADPase," <i>Clin. Res.</i> 40: 226A (abstract), 1992.

EXAMINER

DATE CONSIDERED

3/14/05

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



JUN 06 2003

Sheet 4 of 5

Form PTO-1749

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

2879-US

SERIAL NO.

09/835,147

## INFORMATION DISCLOSURE CITATION

APPLICANT

Charles Maliszewski et al.

FILING DATE

April 13, 2001

GROUP

1644

(Use several sheets if necessary)

## U.S. PATENT DOCUMENTS

EXAMINER	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

RECEIVED

JUN 09 2003

TECH CENTER 1644/2900

## FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

PWK	Marcus, A. et al., "Inhibition of platelet function by an aspirin-insensitive endothelial cell ADPase," <i>J. Clin. Invest.</i> 88: 1690-1696, 1991.
	Mulero, J. et al., "CD39-L4 is a secreted human apyrase, specific for the hydrolysis of nucleoside diphosphates," <i>J. Biol. Chem.</i> 274(29): 20064-20067, 1999.
	Plesner, L., "Ecto-ATPases: Identities and functions," <i>Int. Rev. Cytol.</i> 158: 141-214, 1995.
	Rector, E. et al., "Detection and characterization of monoclonal antibodies specific to IgE receptors on human lymphocytes by flow cytometry," <i>Immunology</i> 55: 481-488, 1985.
	Ronaghi, M. et al., "A sequencing method based on real-time pyrophosphate," <i>Science</i> 281: 363-365, 1998.
↓	Schoenborn, M. et al., "Gene structure and chromosome location of mouse Cd39 coding for an ecto-apyrase," <i>Cytogenet Cell Genet</i> 81: 287-289, 1998.

EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Form PTO-449

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

2879-US

SERIAL NO.

09/835,147

JUN 06 2003

## INFORMATION DISCLOSURE CITATION

APPLICANT

Charles Maliszewski et al.

FILING DATE

April 13, 2001

GROUP

1644

(Use several sheets if necessary)

## U.S. PATENT DOCUMENTS

EXAMINER	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

RECEIVED

JUN 09 2003

TECH CENTER 1601, 24th

## FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

PAT	Sevigny, J. et al., "Purification of the blood vessel ATP diphosphohydrolase, identification and localisation by immunological techniques," <i>Biochim. Biophys. Acta</i> 1334: 73-88, 1997.
	Sevigny, J. et al., "Purification of pancreas type-I ATP diphosphohydrolase and identification by affinity labelling with the 5'-p- fluorosulphonylbenzoyladenine ATP analogue," <i>Biochem J.</i> 312: 351-356, 1995.
	Wang, T., and Guidotti, G., "Cd39 is an ecto-(Ca <sup>2+</sup> , Mg <sup>2+</sup> )-ATPase," <i>J. Biol. Chem.</i> 271(17): 9898-9901, 1996.
↓	Wang, T., et al., "The transmembrane domains of ectoATPase (CD39) affect its enzymatic activity and quaternary structure," <i>J. Biol. Chem.</i> 273(38): 24814-24821, 1998.

EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.